

AMENDMENTS TO THE CLAIMS

1 (currently amended). A method of constructing a web page and presenting the constructed web page on a display device comprising:

displaying an audio-visual program;

receiving [[an]] a pre-fetch push command to retrieve the web page, including an address for use in retrieving information to construct the web page;

retrieving the information using the address;

constructing the web page in a hidden staging frame prior to display on the display device in order to produce the constructed web page;

and commanding the constructed web page be displayed on the display device based upon timer event information transmitted with the pre-fetch push command or a show command[[.]],

and wherein the web page is related to the audio-visual program.

2 (previously presented). A method of constructing a web page as described in claim 1 wherein the receiving step comprises receiving timer event information providing an indication of when to command the web page be displayed on the display device, and the commanding step comprises commanding the constructed web page be displayed based upon the timer event information.

3 (previously presented). A method of constructing a web page as described in claim 1 wherein the step of commanding further comprises the step of receiving a show command instructing that the constructed web page be displayed.

4 (previously presented). A method of constructing a web page as described in claim 1 wherein the address comprises a uniform resource identifier.

5 (previously presented). A method of constructing a web page as described in claim 2 wherein the timer event information comprises a particular amount of time after receiving the pre-

fetch push command at the expiration of which a trigger is generated to actuate the commanding step.

6 (previously presented). A method of constructing a web page as described in claim 2 wherein the constructed timer event information comprises a particular time at which a trigger is generated to actuate the commanding step.

7 (previously presented). A method of constructing a web page as described in claim 1 wherein the constructing step comprises constructing the web page in a memory module.

8 (previously presented). A method of constructing a web page as described in claim 1 wherein the retrieving step comprises using a web browser to retrieve the information.

9 (previously presented). A method of constructing a web page as described in claim 3 wherein the step of receiving a command comprises receiving a program concurrent with receipt of the command instructing that the constructed web page be displayed.

10 (previously presented). A method of constructing a web page as described in claim 9 wherein the program comprises a video program, audio program, or multimedia program.

11 (previously presented). A method of constructing a web page as described in claim 9 wherein the commanding step further comprises the step of transmitting the program and the constructed web page to the display device for simultaneous display.

12 (previously presented). A method of constructing a web page as described in claim 11 wherein the display device is a television.

13 (previously presented). A method of constructing a web page as described in claim 9 wherein the commanding step further comprises the step of transmitting the program for display on a television and transmitting the constructed web page for display on the display device.

14 (previously presented). A method of constructing a web page as described in claim 11 wherein the transmitting step transmits the constructed web page for display to be overlaid on at least a portion of the display of the program.

15 (previously presented). A method of constructing a web page as described in claim 1 wherein the receiving, retrieving, constructing, and commanding steps are performed by a personal computer, a television, a cable box, a satellite box, a radio, a telephone, a telephone answering device, a wireless telephone device, a wireless Internet device, a telephone device for the deaf, or a personal digital assistant.

16 (previously presented). A method of constructing a web page as described in claim 1 wherein the retrieving step comprises retrieving advertising, sports, or music content.

17 (currently amended). An apparatus for constructing a web page and presenting the constructed web page on a display device comprising:

a display for displaying an audio-visual program;

a receiver module for receiving a pre-fetch push command to retrieve the web page, including an address for use in retrieving information to construct the web page;

a retrieving module for retrieving the information using the address;

a construction module for constructing the web page in a hidden staging frame prior to its display on the display device in order to produce the constructed web page; and

a display generation module for displaying the constructed web page on the display device based upon timer event information transmitted with the pre-fetch push command or a show command[[.]],

and wherein the web page is related to the audio-visual program.

18 (previously presented). An apparatus for constructing a web page as described in claim 17 further comprising a timer event module for receiving timer event information and providing an indication of when to trigger the release of the constructed web page for display on the display device, and wherein the display generation module displays the constructed web page based upon the trigger.

19 (previously presented). An apparatus for constructing a web page as described in claim 17 wherein the receiver receives a show command instructing the apparatus to display the constructed web page.

20 (previously presented). An apparatus for constructing a web page as described in claim 17 wherein the address comprises a uniform resource identifier.

21 (previously presented). An apparatus for constructing a web page as described in claim 18 wherein the timer event information comprises a particular amount of time after receiving the pre-fetch push command at the expiration of which the timer event module triggers the display generation module to display the constructed web page.

22 (cancelled)

23 (previously presented). An apparatus for constructing a web page as described in claim 17 further comprising a memory for storing the constructed web page prior to its display on the display device.

24 (previously presented). An apparatus for constructing a web page as described in claim 17 wherein the retrieving module further comprises a computer readable program code means comprising a web browser program to retrieve the information.

25 (previously presented). An apparatus for constructing a web page as described in claim 19 wherein the receiver module receives a program concurrent with receipt of the command that the constructed web page be displayed.

26 (previously presented). An apparatus for constructing a web page as described in claim 25 wherein the program comprises a video program, audio program, or multimedia program.

27 (previously presented). An apparatus for constructing a web page as described in claim 25 wherein the display generation module displays the program and the constructed web page simultaneously on the display device.

28 (previously presented). An apparatus for constructing a web page as described in claim 27 wherein the display device is a television.

29 (previously presented). An apparatus for constructing a web page as described in claim 25 wherein the display generation module displays the program on a television and displays the constructed web page on the display device.

30 (previously presented). An apparatus for constructing a web page as described in claim 27 wherein the display generation module displays the constructed web page by overlaying it on at least a portion of the display of the program.

31-70 (cancelled)

71 (withdrawn). A programming transmission system for instructing one or more programming receivers to construct one or more web pages for delayed presentation on a display device, the programming transmission system comprising:

a programming source for providing a program data stream;

an encoder for inserting one or more addresses into the program data stream, the addresses associated with one or more programs and identifying the storage location of information comprising the web pages; and

a data transmitter for transmitting the program data stream via a transmission medium to one or more programming receivers.

72 (withdrawn). A programming transmission system as described in claim 71 further comprising an timer event generator which generates timer event information associated with the addresses, the timer event information indicating the period for delaying the presentation of the constructed web pages, and wherein the encoder further encodes the timer event information into the program data stream.

73 (withdrawn). A programming transmission system as described in claim 72 further comprising a memory, within which is stored a playlist database comprising:

the addresses;

the timer event information; and

a programming schedule, the programming schedule associated with the addresses and the timer event information.

74 (withdrawn). A programming transmission system as described in claim 73 wherein the playlist database is remotely accessible and updateable by programmers.

75 (withdrawn). A programming transmission system as described in claim 71 further comprising a command generator for generating one or more commands to the programming receivers to display the constructed web pages, and wherein the encoder further encodes the display command into the program data stream.

76 (withdrawn). A programming transmission system as described in claim 75 wherein the command generator is able to be actuated in association with a program transmission in real-time by a programmer.

77 (withdrawn). A programming transmission system as described in claim 71 wherein the transmission medium is selected from the group consisting of television, cable, satellite, microwave, radio, fiber optic, telephone, wireless telephone, the Internet, an intranet, a public communication network, and a private communication network.

78 (withdrawn). A programming transmission system as described in claim 71 wherein the encoder inserts the addresses within either the vertical blanking interval of a video signal, the horizontal blanking interval of a video signal, an associated audio channel to a video signal, or a data packet.

79 (withdrawn). A programming transmission system as described in claim 72 wherein the encoder the addresses and the timer event information within either the vertical blanking interval of a video signal, the horizontal blanking interval of a video signal, an associated audio channel to a video signal, or a data packet.

80 (withdrawn). A programming transmission system as described in claim 71 further comprising an intermediate distribution system which receives the program data stream, the intermediate distribution system further comprising:

a decoder for decoding the addresses from the data stream;
a data server with a memory for storing the decoded addresses; and
a connection with a communication link between the data server and the programming receivers for transmitting the addresses from the data server to the programming receivers.

81 (withdrawn). A programming transmission system as described in claim 72 further comprising an intermediate distribution system which receives the program data stream, the intermediate distribution system further comprising:

a decoder for decoding the addresses and timer event information from the program data stream;

a data server with a memory for storing the addresses and event timer information; and

a connection with a communication link between the data server and programming receivers transmitting the addresses and timer event information from the data server to the programming receivers.

82 (withdrawn). A programming transmission system as described in claim 71 wherein the addresses comprise Uniform Resource Identifiers.

83 (withdrawn). A programming transmission system as described in claim 71 wherein the programming source comprises a broadcast transmission, a real-time program feed, or a media playback device.

84 (withdrawn). A programming transmission system as described in claim 83 wherein the media playback device is selected from the group consisting of a video tape player, a digital video disk player, a digital media player, and a digital file server.

85 (withdrawn). A method of transmitting instructions from a programming transmission system to one or more programming receivers to instruct the programming receivers to construct a web page for delayed presentation on respective display devices, the method comprising the steps of:

selecting an address associated with a program which identifies the storage location of information comprising the web page;

encoding the selected address into a program data stream; and

transmitting the program data stream to the programming receivers.

86 (withdrawn). A method of transmitting instructions from a programming transmission system as described in claim 85 further comprising the step of associating the address with timer event information, the timer event information indicating the period for delaying presentation of the constructed web page; and wherein the step of encoding further comprises encoding the timer event information into the program data stream.

87 (withdrawn). A method of transmitting instructions from a programming transmission system as described in claim 86 further comprising the step of selecting the timer event information from a playlist, the timer event information associated with programming schedules which together comprise the playlist.

88 (withdrawn). A method of transmitting instructions from a programming transmission system as described in claim 87 wherein the playlist is further comprised of the address.

89 (withdrawn). A method of transmitting instructions from a programming transmission system as described in claim 87 wherein the playlist information is remotely accessible and updateable by programmers.

90 (withdrawn). A method of transmitting instructions from a programming transmission system as described in claim 85 further comprising the steps of:

inserting an instruction to display the web page into the program data stream; and
transmitting the program data stream with the instruction to display to the programming receivers.

91 (withdrawn). A method of transmitting instructions from a programming transmission system as described in claim 90 wherein the step of inserting is performable in association with a program transmission in real-time by a programmer.

92 (withdrawn). A method of transmitting instructions from a programming transmission system as described in claim 85 wherein the program data stream is transmitted over a transmission medium selected from the group consisting of television, cable, satellite, microwave, radio, fiber optic, telephone, wireless telephone, the Internet, an intranet, a public communication network, and a private communication network.

93 (withdrawn). A method of transmitting instructions from a programming transmission system as described in claim 85 wherein the step of encoding further comprises inserting the address within either the vertical blanking interval of a video signal, the horizontal blanking interval of a video signal, an associated audio channel to a video signal, or a data packet.

94 (withdrawn). A method of transmitting instructions from a programming transmission system as described in claim 86 wherein the step of encoding further comprises inserting the address and timer event information within either the vertical blanking interval of a video signal, the horizontal blanking interval of a video signal, an associated audio channel to a video signal, or a data packet.

95 (withdrawn). A method of transmitting instructions from a programming transmission system as described in claim 85 wherein the step of transmitting further comprises the steps of receiving the program data stream at an intermediate distribution system; decoding the address from the program data stream; storing the address in a memory in the intermediate distribution system; and transmitting the address from the intermediate distribution system to the programming receivers via communication links between the intermediate distribution system and the programming receivers.

96 (withdrawn). A method of transmitting instructions from a programming transmission system as described in claim 86 wherein the step of transmitting further comprises the steps of receiving the program data stream at an intermediate distribution system; decoding the address and timer event information from the program data stream; storing the address and timer event

information in a memory in the intermediate distribution system; and transmitting the address and timer event information from the intermediate distribution system to the programming receivers via communication links between the intermediate distribution system and the programming receivers.

97 (withdrawn). A method of transmitting instructions from a programming transmission system as described in claim 85 wherein the address comprises a Uniform Resource Identifier.

98 (withdrawn). A web browser plug-in product for use with a web browser program embodied in a programming receiver, the plug-in product comprising a computer readable medium having computer readable program code means embodied in the medium, the computer readable program code means comprising instructions for:

causing the web browser program to acknowledge the transmission of instructions to the programming receiver from a programming source;

causing the web browser program to retrieve information from a communication network via a communications link with the programming receiver based on instructions received from the programming source;

causing the web browser program to assemble the retrieved information in a memory module in the programming receiver; and

causing the web browser program to access the assembled information and display the assembled information on a display means connected to the receiver.

99 (withdrawn). A web browser plug-in product as described in claim 98 wherein the programming source is a programming transmission system which transmits the instructions to the programming receiver in a program data stream.

100 (withdrawn). A web browser plug-in product as described in claim 99 wherein the programming transmission system transmits the program data stream via a transmission medium selected from the group consisting of broadcast television, cable, satellite, microwave, radio, fiber optic, telephone, wireless telephone, and the communication network.

101 (withdrawn). A web browser plug-in product as described in claim 98 wherein the communication network is selected from the group consisting of: the Internet, an intranet, a public network, and a private network.

102 (withdrawn). A web browser plug-in product as described in claim 98 wherein the programming source is a media playback device connected to the programming receiver which transmits the instructions to the programming receiver in a program data stream.

103 (withdrawn). A web browser plug-in product as described in claim 102 wherein the media playback device is selected from the group consisting of a video tape player, a digital video disk player, a digital media player, and a digital file server.

104 (withdrawn). A web browser plug-in product as described in claim 98 wherein the computer readable program code means further comprises instructions for causing the web browser program to delay the access and display of the assembled information based upon timer event information in the received instructions.

105 (withdrawn). A web browser plug-in product as described in claim 104 wherein the computer readable program code means further comprises instructions for causing the web browser program to consult a timer event module in the programming receiver to determine whether the delay imposed by the timer event information has expired.

106 (withdrawn). A web browser plug-in product as described in claim 98 wherein the computer readable program code means further comprises instructions for causing the web browser program to delay the access and display of the assembled information until the receipt of a command from the programming source.

107 (withdrawn). A web browser plug-in product as described in claim 98 wherein the instructions from the programming source comprise a Uniform Resource Identifier.

108 (withdrawn). A web browser plug-in product as described in claim 98 wherein the information comprises one or more web pages.

109 (withdrawn). A method in a in a web page presentation system for displaying a preconstructed web page associated with a program in conjunction with the display of the program on a display device, the preconstructed web page identified by an address, the preconstructed web pages stored in a memory in the system, the method comprising:

displaying the program on the display device; and
superimposing a display of the preconstructed web page over a portion of the displayed program.

110 (withdrawn). A method in a in a web page presentation system for displaying a preconstructed web page as described in claim 109 further comprising substituting the display of the preconstructed web page for the displayed program.

111 (withdrawn). A method in a in a web page presentation system for displaying a preconstructed web page as described in claim 109 further comprising superimposing a plurality of displays of a plurality of preconstructed web pages over portions of the displayed program.

112 (withdrawn). A method in a in a web page presentation system for displaying a preconstructed web page as described in claim 109 further comprising superimposing a display of a listing of the address identifying the preconstructed web page.

113 (withdrawn). A method in a in a web page presentation system for displaying a preconstructed web page as described in claim 111 further comprising superimposing a display of a listing of the plurality of addresses identifying the plurality of preconstructed web pages.

114 (withdrawn). A method in a in a web page presentation system for displaying a preconstructed web page as described in claims 112 or 113 further comprising saving the addresses in the memory for later redisplay at the direction of a user.

115 (withdrawn). A method in a in a web page presentation system for displaying a preconstructed web page associated with a program in conjunction with the display of the program on a display device, the preconstructed web page identified by an address, the preconstructed web pages stored in a memory in the system, the method comprising:

displaying the program in a first window on the display device; and

displaying the preconstructed web page in a second window on the display device.

116 (withdrawn). A method in a in a web page presentation system for displaying a preconstructed web page as described in claim 115 further Comprising resizing the first and second windows as directed by a user.

117 (withdrawn). A method in a in a web page presentation system for displaying a preconstructed web page as described in claim 116 further comprising superimposing the first and second windows over each other, either portionally or entirely, as a consequence of resizing by the user.

118 (withdrawn). A method in a in a web page presentation system for displaying a preconstructed web page as described in claim 115 further comprising displaying a plurality of preconstructed web pages in a plurality of windows on the display device.

119 (withdrawn). A method in a in a web page presentation system for displaying a preconstructed web page as described in claim 118 further comprising resizing the plurality of windows as directed by a user.

120 (withdrawn). A method in a in a web page presentation system for displaying a preconstructed web page as described in claim 118 further comprising superimposing the first, second, and plurality of windows over each other, either portionally or entirely, as a consequence of resizing by the user.

121 (withdrawn). A method in a in a web page presentation system for displaying a preconstructed web page as described in claim 115 further comprising displaying a plurality of preconstructed web pages successively in the second window on the display device.

122 (withdrawn). A method in a in a web page presentation system for displaying a preconstructed web page as described in claim 115 further comprising displaying a third window containing a listing of the address identifying the preconstructed web page.

123 (withdrawn). A method in a in a web page presentation system for displaying a preconstructed web page as described in claim 118 further comprising displaying a third window containing a listing of the addresses identifying the plurality of preconstructed web pages.

124 (withdrawn). A method in a in a web page presentation system for displaying a preconstructed web page as described in claim 121 further comprising displaying a third window containing a listing of the addresses identifying the plurality of preconstructed web pages.

125 (withdrawn). A method in a in a web page presentation system for displaying a preconstructed web page as described in claims 122, 123, or 124 further comprising resizing the third window as directed by a user.

126 (withdrawn). A method in a in a web page presentation system for displaying a preconstructed web page as described in claims 122, 123, or 124 further comprising saving the addresses in third window in the memory for later redisplay at the direction of the user.

127 (withdrawn). A method in a in a web page presentation system for displaying a preconstructed web page as described in claim 125 further comprising superimposing the first, second, third, and plurality of windows, as appropriate, over each other, either portionally or entirely, as a consequence of resizing by the user.